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BOOK REVIEWS.

EDITED BY W. H. BUSSEY, University of Minnesota.

Vocational Mathematics. By WILLIAM H. DOOLEY. D. C. Heath and Co., Boston, 1915. 358 pages. \$1.00.

The author of this book is the principal of the Technical High School of Fall River, Mass. He states in the preface that, in his ten years of experience in organizing and conducting intermediate and secondary technical schools, he has noticed the inability of the regular teachers in mathematics to give the pupils the training in commercial and rule of thumb methods of solving mathematical problems that are so necessary in everyday life. He says that the pupils graduate from the course in mathematics without being able to "commercialize" or apply their mathematical knowledge in such a way as to meet the needs of trade and industry. It was to overcome this difficulty that he wrote this book. It is in the following ten parts, whose names sufficiently indicate the scope of the work: Review of arithmetic; carpentering and building; sheet metal work; bolts, screws and rivets; shafts, pulleys and gears; plumbing and hydraulics; steam engineering; electrical work; mathematics for machinists; textile calculations. There is an appendix of about 40 pages devoted to the metric system, graphs, formulas, logarithms, trigonometry, and tables of various kinds.

W. H. BUSSEY.

A Review of Algebra. By ROMEYN HENRY RIVENBURG. American Book Co., New York, 1914. 80 pages.

This is a book of problems prepared by the head of the department of mathematics of the Peddie Institute, Hightstown, N. J. It begins with a seven-page outline of elementary and intermediate algebra which contains important definitions, special rules for multiplication and division, cases in factoring, etc. It is designed for senior high-school students who need a thorough review of algebra in order to prepare for college entrance examinations and for effective work in the freshman year in college. The whole scheme of the book is ordinarily to have a page of problems represent a day's work. It includes quadratics, simultaneous quadratics, the progressions and the binomial theorem. There are twenty-three pages of actual college entrance examinations at the end of the book. The author states in the preface that the student is expected to use his regular text book in algebra for reference, as he would use a dictionary,—to recall a definition, a rule, or a process that he has forgotten.

W. H. BUSSEY.

An Introduction to Laboratory Physics. By LUCIUS TUTTLE. Jefferson Laboratory of Physics, Philadelphia, 1915. 150 pages.

This book is essentially a revision of the mimeographed direction sheets that have been used in the first part of the laboratory course given by the author at